



## SEQUENCE LISTING

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Gour, Barbara J.

<120> METHODS FOR DIAGNOSING AND EVALUATING CANCER

<130> 100086.407C11

<140> US 10/759,507  
<141> 2004-01-16

<150> 09/234,395  
<151> 1999-01-20

<150> 09/187,859  
<151> 1998-11-06

<150> 09/073,040  
<151> 1998-05-05

<160> 324

<170> PatentIn Ver. 2.0

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<212> PRT  
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<223> Description of Unknown Organism: Calcium Binding  
Motif in Extracellular domains of Classical  
Cadherins

<400> 1  
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<210> 2  
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Motif in Extracellular domains of Classical  
Cadherins

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 Synthesis based on Human OB-Cadherin

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 Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp  
 20 25 30  
 Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe  
 35 40 45  
 Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp  
 50 55 60  
 Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg  
 65 70 75 80  
 Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val  
 85 90 95  
 Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe  
 100 105

<210> 5  
 <211> 106  
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 <213> Mus musculus

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 Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp  
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 Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe  
 35 40 45  
 Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp  
 50 55 60  
 Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg  
 65 70 75 80  
 Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val

85 90 95  
 Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe  
 100 105  
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 Ser Leu Arg Tyr Ser Val Thr Gly Pro Gly Ala Asp Gln Pro Pro Thr  
 35 40 45  
 Gly Ile Phe Ile Leu Asn Pro Ile Ser Gly Gln Leu Ser Val Thr Lys  
 50 55 60  
 Pro Leu Asp Arg Glu Gln Ile Ala Arg Phe His Leu Arg Ala His Ala  
 65 70 75 80  
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 85 90 95  
 Asn Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe  
 100 105

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 Ser Leu Arg Tyr Ser Val Thr Gly Pro Gly Ala Asp Gln Pro Pro Thr  
 35 40 45  
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 Pro Leu Asp Arg Glu Leu Ile Ala Arg Phe His Leu Arg Ala His Ala  
 65 70 75 80  
 Val Asp Ile Asn Gly Asn Gln Val Glu Asn Pro Ile Asp Ile Val Ile

85 90 95  
 Asn Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe  
 100 105  
  
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 Ser Leu Arg Tyr Ser Val Thr Gly Pro Gly Ala Asp Gln Pro Pro Thr  
 35 40 45  
 Gly Ile Phe Ile Ile Asn Pro Ile Ser Gly Gln Leu Ser Val Thr Lys  
 50 55 60  
 Pro Leu Asp Arg Glu Leu Ile Ala Arg Phe His Leu Arg Ala His Ala  
 65 70 75 80  
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 85 90 95  
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 <222> (9)  
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 Ile Phe Val Ile Asp Asp Lys Ser Gly  
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<210> 10  
 <211> 9  
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 <213> Unknown

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 Adhesion Recognition Sequence in an OB-Cadherin

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 <223> Where Xaa is and independently selected amino acid

<220>  
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 <222> (3)  
 <223> Where Xaa is either Valine of Serine

<220>  
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 <222> (4)  
 <223> Where Xaa is either Isoleucine or Valine

<220>  
 <221> MOD\_RES  
 <222> (5)  
 <223> Where Xaa is either Aspartate or Glutamate

<220>  
 <221> MOD\_RES  
 <222> (6)  
 <223> Where Xaa is an Independently selected amino acid

<220>  
 <221> MOD\_RES  
 <222> (7)  
 <223> Where Xaa is an independently selected amino acid

<220>  
 <221> MOD\_RES  
 <222> (8)  
 <223> Where Xaa is either Serine or Threonine

<400> 10  
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<210> 11  
 <211> 4  
 <212> PRT  
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<220>  
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## Synthesis based on Human OB-Cadherin

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<400> 11
Ile Asp Asp Lys
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<210> 12
<211> 4
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<220>
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      Synthesis based on Human OB-Cadherin

<400> 12
Asp Asp Lys Ser
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<210> 13
<211> 5
<212> PRT
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<220>
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<400> 13
Val Ile Asp Asp Lys
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<210> 14
<211> 5
<212> PRT
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<220>
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<400> 14
Ile Asp Asp Lys Ser
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<210> 15
<211> 6
<212> PRT
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Val Ile Asp Asp Lys Ser
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<210> 16
<211> 5
<212> PRT

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<213> Artificial Sequence

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Synthesis based on Human OB-Cadherin

<400> 16

Asp Asp Lys Ser Gly  
1 5

<210> 17

<211> 6

<212> PRT

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<400> 17

Ile Asp Asp Lys Ser Gly  
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<210> 18

<211> 7

<212> PRT

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Synthesis based on Human OB-Cadherin

<400> 18

Val Ile Asp Asp Lys Ser Gly  
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<210> 19

<211> 6

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Synthesis based on Human OB-Cadherin

<400> 19

Phe Val Ile Asp Asp Lys  
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<210> 20

<211> 7

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<223> Description of Artificial Sequence: Product of  
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<400> 20

Phe Val Ile Asp Asp Lys Ser  
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<210> 21  
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<210> 22  
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 Synthesis based on Human OB-Cadherin

<400> 22  
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<210> 23  
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 Synthesis based on Human OB-Cadherin

<400> 23  
 Ile Phe Val Ile Asp Asp Lys Ser  
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<210> 24  
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<220>  
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<400> 24  
 Ile Phe Val Ile Asp Asp Lys Ser Gly  
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<210> 25  
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 Synthesis based on Human OB-Cadherin



<400> 25  
 Ile Glu Glu Tyr  
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<210> 26  
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 Synthesis based on Human OB-Cadherin

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 Glu Glu Tyr Thr  
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<210> 27  
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 Synthesis based on Human OB-Cadherin

<400> 27  
 Val Ile Glu Glu Tyr  
 1 5

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 Synthesis based on Human OB-Cadherin

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 Ile Glu Glu Tyr Thr  
 1 5

<210> 29  
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 Synthesis based on Human OB-Cadherin

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 Val Ile Glu Glu Tyr Thr  
 1 5

<210> 30  
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 Synthesis based on Human OB-Cadherin

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 Glu Glu Tyr Thr Gly  
 1 5

<210> 31  
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 Synthesis based on Human OB-Cadherin

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 Ile Glu Glu Tyr Thr Gly  
 1 5

<210> 32  
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 Synthesis based on Human OB-Cadherin

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 Phe Val Ile Glu Glu Tyr  
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<210> 34  
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<400> 34  
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 Synthesis based on Human OB-Cadherin

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 Phe Phe Val Ile Glu Glu Tyr  
 1 5

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<220>  
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 Synthesis based on Human OB-Cadherin

<400> 37  
 Phe Phe Val Ile Glu Glu Tyr Thr  
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<210> 38  
 <211> 9  
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 Synthesis based on Human OB-Cadherin

<400> 38  
 Phe Phe Val Ile Glu Glu Tyr Thr Gly  
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<210> 39  
 <211> 4  
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 Synthesis based on Human OB-Cadherin

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Val Glu Ala Gln  
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<210> 40  
<211> 4  
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Synthesis based on Human OB-Cadherin

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Glu Ala Gln Thr  
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<210> 41  
<211> 5  
<212> PRT  
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Synthesis based on Human OB-Cadherin

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Ser Val Glu Ala Gln  
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<210> 42  
<211> 5  
<212> PRT  
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Synthesis based on Human OB-Cadherin

<400> 42  
Val Glu Ala Gln Thr  
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<210> 43  
<211> 6  
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Synthesis based on Human OB-Cadherin

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Ser Val Glu Ala Gln Thr  
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<210> 44  
<211> 5  
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 Synthesis based on Human OB-Cadherin

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 Glu Ala Gln Thr Gly  
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<210> 45  
 <211> 6  
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<210> 46  
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 Synthesis based on Human OB-Cadherin

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<210> 47  
 <211> 6  
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 Phe Ser Val Glu Ala Gln  
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<210> 48  
 <211> 7  
 <212> PRT  
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 Synthesis based on Human OB-Cadherin

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<210> 49

<211> 8  
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 <210> 51  
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   1                  5  
  
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 <210> 53  
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<220>  
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 <223> AMIDATION

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<210> 54  
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       OB-Cadherin

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<210> 56  
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<213> Artificial Sequence

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OB-Cadherin

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<223> Cyclic Peptide

<400> 56

Cys Ile Asp Asp Lys Cys  
1 5

<210> 57

<211> 6

<212> PRT

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<223> Description of Artificial Sequence: Product of  
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OB-Cadherin

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<400> 57

Cys Asp Asp Lys Ser Cys  
1 5

<210> 58

<211> 7

<212> PRT

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Synthesis and Cyclization based on Human  
OB-Cadherin

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<223> Cyclic Peptide

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Cys Val Ile Asp Asp Lys Cys  
1 5

<210> 59

<211> 7

<212> PRT

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Synthesis and Cyclization based on Human  
OB-Cadherin



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<210> 60  
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OB-Cadherin

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<210> 61  
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OB-Cadherin

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OB-Cadherin

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OB-Cadherin  
  
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OB-Cadherin

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<223> Cyclic Peptide

<400> 66

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1 5 10

<210> 67

<211> 9

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<400> 67

Cys Ile Phe Val Ile Asp Asp Lys Cys  
1 5

<210> 68

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OB-Cadherin

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<400> 68

Cys Ile Phe Val Ile Asp Asp Lys Ser Cys  
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<210> 69

<211> 11

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Synthesis and Cyclization based on Human  
OB-Cadherin

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       Synthesis and Cyclization based on Human  
       OB-Cadherin

<220>  
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       1                  5

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       OB-Cadherin

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       1                  5

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       Synthesis and Cyclization based on Human  
       OB-Cadherin

<220>  
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 Asp Val Ile Asp Asp Lys Lys  
       1                  5

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Synthesis and Cyclization based on Human  
OB-Cadherin

<220>

<223> Cyclic Peptide

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Asp Phe Val Ile Asp Asp Lys Lys  
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## OB-Cadherin

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Lys Val Ile Asp Asp Lys Glu  
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## OB-Cadherin

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## OB-Cadherin

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OB-Cadherin

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 N-Cadherin

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 N-Cadherin

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N-Cadherin

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N-Cadherin

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N-Cadherin

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N-Cadherin

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Synthesis and Cyclization based on Human

## N-Cadherin

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&lt;223&gt; Cyclic Peptide

&lt;400&gt; 310

Asp His Ala Val Lys

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&lt;210&gt; 311

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N-Cadherin

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&lt;223&gt; Cyclic Peptide

&lt;400&gt; 311

Lys His Ala Val Glu

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N-Cadherin

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&lt;223&gt; Cyclic Peptide

&lt;400&gt; 312

Ala His Ala Val Asp Ile

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N-Cadherin

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<212> DNA

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<223> Description of Artificial Sequence: N-Cadherin  
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21

<210> 324

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<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: N-Cadherin  
reverse primer

<400> 324

catttgatc atccgcatc

19